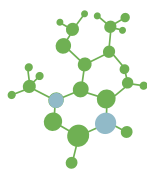




Your partner for Smart & Innovative Solutions

API, RSM, Intermediates, Excipients Development & manufacturing

- > Route scouting
- > Process development & Optimisation
- > Analytical development
- > QC, QA
- > Process & analytical methods validations & reports
- > GMP production and regulatory support
- > Product life cycle management
- > Grams to multi-tons



Non commodity portfolio

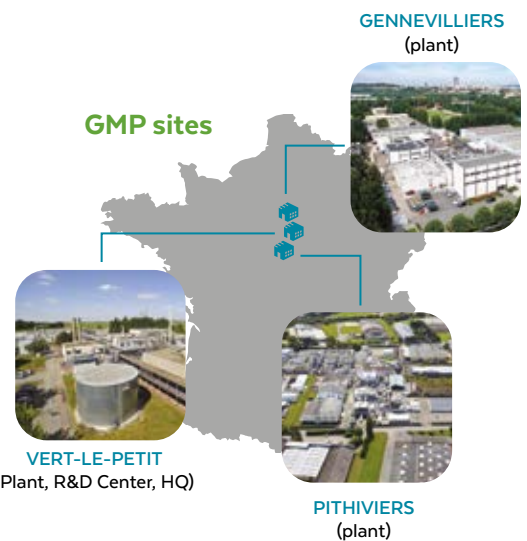
- > Generic API
- > Building blocks, RSM, Intermediates
- > Activated amino acids or NCAs
- > Functional Excipients for drug delivery and drug conjugate under IsodelTM brand:
 - Vitamin-E-TPGS
 - PolyAmino Acids



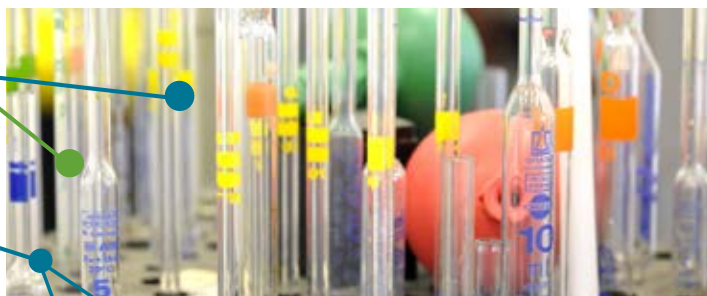
Premium level expertise

- > Phosgene chemistry
- > Reduction : Hydrogenation (high pressure up to +40 bars), Hydrides
- > Bromination, Nitration
- > Cryogenic reaction (below -60 °C)
- > Purification by thin-film evaporator
- > Ring opening polymerization (ROP)

GMP sites



API
INTERMEDIATES
RSM
BUILDING BLOCKS
FUNCTIONAL EXCIPIENTS
CDMO SERVICES
CAPABILITIES: FROM LAB TO MT



Isodel™ Vit-E-TPGS and derivatives

NF & food grade since 2010
Excipients & API
US DMF and CDMF

Portfolio

Generic API (CEP, DMF)

- > Nefopam
- > Amiodarone
- > Domiphen bromide
- > Econazole
- > Fenticonazole

RSM, Intermediates

- > D-Phenylalaninol
- > 1-Piperazinecarbonyl chloride, 4-Methyl, HCl
- > 5-Chlorovaleroyl chloride
- > 4-Amino-2-chloro-6,7-dimethoxyquinazoline

N-CarboxyAnhydrides (NCAs), Urethane N-CarboxyAnhydrides (UNCAs)

- > Ala-NCA
- > Glu(OBzl)-NCA
- > Lys(TFA)-NCA
- > Tyr-NCA
- > Z-Val-NCA
- > Lys(Z)-NCA
- > Up to 60 activated aminoacids...

RSM for Glatiramer, Daclatasvir, Ledipasvir
And Polyaminoacids (PAA)



Isodel™ PAAs: custom manufacturing with integrated offer of NCAs

HOMOPOLYMERS-PAA

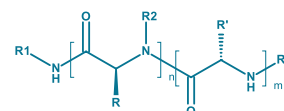
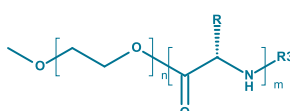
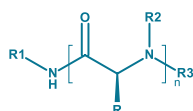
Poly-L-amino acids
Poly-sarcosine

COPOLYMERS-PAA

Methoxy-poly(ethylene glycol)-block-poly(L-amino acids)
Poly(L-amino acids)-block-poly(L-amino acids)
Poly(sarcosine)-block-poly(L-amino acids)

FUNCTIONALIZED PAA

Functionalized monoblock and diblock polyaminoacids



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Innovative Solutions

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